15-57-8-11393 Referativnyy zhurnal, Geologiya, 1957, Nr 8,

Translation from:

p 183 (USSŘ)

AUTHORS:

Salayev, S. G., Zeynalov, M. M.

TITLE:

Eruption of the Shikhzagirli Gryazovoy Vulkan (Mud Volcano) (Izverzheniye gryazevogo vulkana Shikhzagirli)

Tr. Azerb. industr. in-ta, 1956, Nr 13, pp 46-52

PERIODICAL:

ABSTRACT:

The volcano is located in Central Kobystan on the southeastern slope of the Great Caucasus 80 km west of

Baku. It is associated with the Shikhzagerki fold, the core of which is composed of compressed rock of koun. The mud-volcanic breccias consist of koun rock with a high content of bituminous coal. The volcano acts periodically. Before the last eruption on January 30, 1955, a subterranean rumble was heard for a few minutes; then the volcano began to emit gas, which ignited, forming a column of flame 100m to 200 m high

Card 1/2

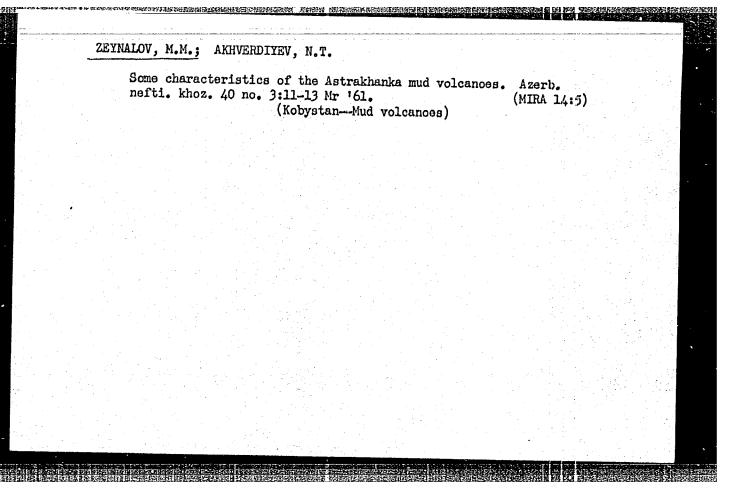
CIA-RDP86-00513R001964510017-7" APPROVED FOR RELEASE: 09/19/2001

Eruption of the Shikhzagirli Gryazovoy Vulkan (Cont.)

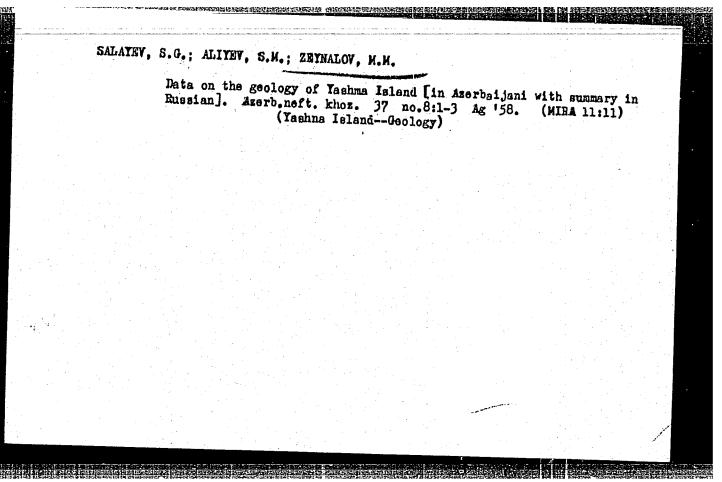
and visible at a distance of 42 km. An area with a diameter of 130 m was covered with fresh breccia; the volume of the erupted breccia was 80 000 cu m. Fissures were formed; the chief of these, 500 m long and 0.5 m to 0.8 m wide, passes along the southern edge of the volcanic district.

Card 2/2

Yu. A. Kosygin



Miocene geology of the western Apsheron Peninsula. Trudy AzNII DN no.10:31-45 '60. (MIRA 14:4)  (Apsheron Peninsula-Geology)	RZAYEV,	M.A.; SAI	LAYEV, S.G.	; ZEYNALOV	, M.M.	 		
		Miocene g no.10:31-	-45 160 <b>.</b>			a. Trud	y Aznii dn (Mira 14:4)	)



Wadding, S.G.; Zethalov, M.M.

New eruption of the Boz-Dag (Kobi) mud volcano. Azerb. neft. khoz.
37 no.3:9-10 kr '58.

(Boz-Dag Range-Mud volcanoes)

(Boz-Dag Range-Mud volcanoes)

ا داغرویس	ZEYNALO	V, M.I	A.	meseça.							:	. :									
		New of with	iate su	ı on	th y i	n R	uss	s of ian]	mud Tr	vole udy	zerb	s in	Kobya . ina	stan	[in no.16	:21-	25	jani '57. 11:9			
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ZEYTENOK, N.A.; REYZIN, F.N.

Role of sulfhydryl compounds of ECHO viruses in the resistance of their hemagglutinins to trypsin. Vop. virus 9 no.4:506-507 J1-Ag '64. (MIRA 18:7

1. Institut poliomiyelita i virusnykh entsefalitov AMN SSSR, Moskva.

## ZEYNALOV, N.A. Structural control of the mineralization of gold-ore field in a deposit in Transcaucasia: Izv. vys. ucheb. zav.; geol. i razv. 6 no.4:99-105 Ap '63. (MIRA 16:6) 1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze. (Transcaucasia—Gold ores)

ZKYNALOV. N. M., Cand Agr Soi -- "Periods of a cultivation of a grass layer under cotton." Kirovabed, 1960 (Committee of Higher and Secondary Specialized Education of the Council of Ministers AzSSR. Azerbaydzhan Agr Inst). (EL, 1-61, 200)

-289-

TOPCHIBASHEV, M.A.; ZEYNALOV, R.I.

Automatic control of operating conditions of a standard petroleum refining unit by the quality of raw materials and residue. Za tekh.prog. 3 no.10:1-6 0 '63. (MIRA 16:12)

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1. Energeticheskiy institut imeni I.G. Yes'mana.

L 11149-66 EWT (m)/EWP(1)/T/EWP(t)/EWP(b) JD/WM/WB/RM	5
ACC NR. AP6000335 SOURCE CODE: UIL/0286/65/000/021/003	5/0035
AUTHORS: Kuliyev, A. M.; Bragin, V. A.; Mamedov, I. A.; Konovalov, V. A.;	. 9/1
	್ಗಿರು
Sadykhov, K. S.; Sharifov, F. R.; Zeynalov, S. D.; Mamedov, S. A.; Diadimov	i.
ORG: none	The second second
15	
TITLE: A method for protecting metals from corresion? Class 22, No. 176022	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 35	
Transfer Paradoon Thousands I model than a standa, 110, 51, 1802, 32	
TOPIC TAGS: corrosion, corrosion protection, organic acid, carbon dioxide, hydr	ro-
carbon, asphalt, corrosion inhibitor	
ADCTDACTO This Author Control of the Author	
ABSTRACT: This Author Certificate presents a method for protecting metals from corrosion in a medium of low organic acids and carbon dioxide with the help of	
corresion inhibitor; To increase the degree of protection, hydrocarbon-soluble	
products of neutralizing acid asphalts are used as the inhibitor.	
SUB CODE: 1.1/ SUBM DATE: 21/Nov64	
Card 1/1	07.3
Card 1/1 UDC: 620.1	131.9

ABRAMOV, D.M.; ZEYNALOV, S.D.; AGAYEV, N.M.

Electrochemical method for determining the efficiency of corrosion inhibitors for steel in the production of gascondensate wells. Gaz. delo no.1:22-25 '65.

(MIRA 18:6)

1. Institut khimii AN AZSSR.

NEGREYEV, V.F.; KULIYEV, A.M.; MAMEDOV, I.A.; SADYKHOV, K.I.; ZEYNALOV, S.D.;
ABDULLAYEVA, G.M.; ZEYNALOVA, K.A.

Investigating some surface-active by-products of the industry of oil additives as corrosion inhibitors. Azerb.khim.zhur. no.6: 57-64 '63. (MIRA 17:3)

AKHUNDOVA, G.V.; ALIYEV, A.A.; ZEYNALOV, S.G.; KASUMOV, S.K.

Comparison of the astroclimatic characteristics of two points.

Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekh, nauk no.2:91-102 '63.

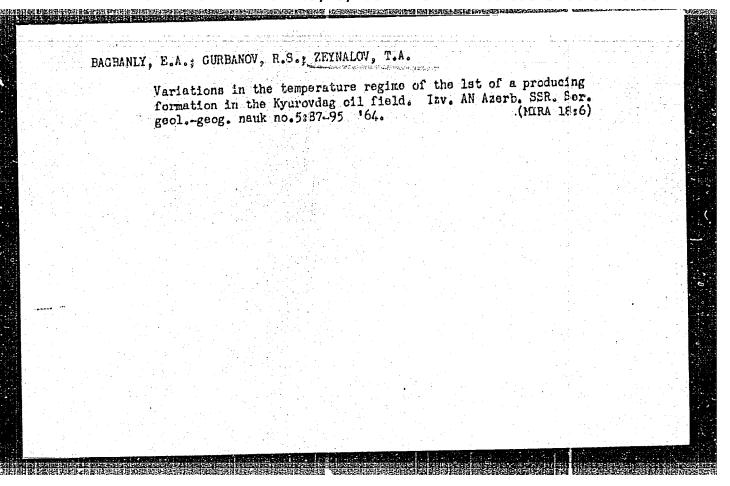
(MIRA 16:10)

AKHUNDOVA, G.V.; ALIYEV, A.A.; ZEYNALOV, S.K.; KASUMOV, S.G.

Scintillation amplitude of a star's image as dependent on the zenith distance. Izv. AN Azerb. SSR. Ser. fiz. mat. i tekh. nauk no.1:95-111 '63. (MIRA 16:7)

(Stars Observations)

<u> </u>	ZEYNALOV,							
. <del>.</del>	a	e class complex 7-111 '6	parameter. 1	non-self-co Trudy Ins (Operators	t. mat. 1	mekn. Ma	lepending Azerb.SS (MIRA 14:	



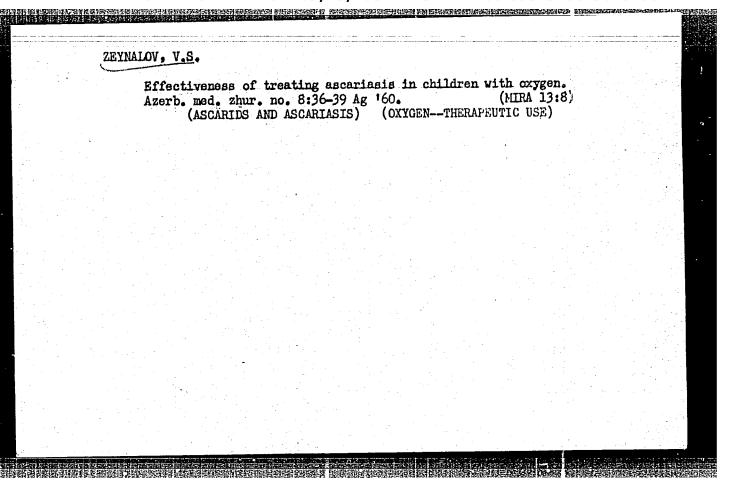
ZEYNAL	DV, V.K.	
	Complete utilization of the oxidized paraffin distillate. Inst.khim.AN Azerb.SSR 17:164-179 '59, (MIRA	Trudy 13:4)
	1. Institut khimii AN AzerSSR. (Petroleum chemicals) (Paraffins)	

ZEYNALOV, V. M. Cand Biol Sci -- (diss) "Rust fungi of the grain, fodder, and wild cereals of Azerbaydzhan." Baku, 1958. 24 pp (Acad Sci Azerbaydzhan SSR. Inst of Agriculture), 100 copies (KL, 14-58, 111)

- 37-

ZEYNALOV, V. S., Cand Med Sci — Efficienty of oxygen therapy in ascariasis and oxygen combined with accretions in lambliasis in children." Baku, 1960

(Azerbayazhan State Med Inst im N. Narimanov). (KL, 1-61, 207)



			<u>-                                    </u>		
ZEYNALO	V. Y.S.				
	Affectiveness of to quinacrine and oxyg	reating intestingen. Azerb.med.z	al lambliasis in chi hur. no.2:45-48 F	ldren with 60. (MIRA 13:5)	
	(GIARDIASIS)	(QUINACRINE)	(OXYGENTHERAPEUTI	C USE)	

MAMEDOV, K.P.; SULEYMANOV, Z.I.; ZEYNALOV, V.Z.

Thermographic study of the process of selenium crystallization by means of a multipoint electron potentiometer. Azerb.khim.zhur. no.4:84-86 65. (MIRA 18:12)

1. Institut fiziki AN AzSSR. Submitted March 23, 1964.

# ZEYNALOV, V.S. Effectiveness of oxygen therapy in ancyloatomiasis; preliminary report. Azerb.med.zhur. no.4:78-79 Ap '58 (MIRA 11:7) 1. Iz kafedry pronedevtiki detskikh bolezney (zav. - dots. A.M. Dzhabar-zade) i kafedry epidemiologii (zav. - sasluzhennyy deyatel nauki, prof. P.P. Popov) Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta im. N.Narimanova. (HOONORNS) (OXYGEN-THERAPEUTIC USE)

ZEYNA	LOV, Z.		
	Competition of highway transport workers in Azerbai 38 no.6:4-5 Je '60.	jan. Avt.transp. (MIRA 14:4)	
	1. Ministr avtomobil'nogo transporta Azerbaydzhansk (Azerbaljan—Transportation, Automotive)	coy SSR,	
u į			

ZEYNAL	OV, Z.		-	
- Andrew Control of the Control of t	Azerbaijan S.S.R. Avt.transp. 35 no.10:20 0	157•	(MIRA	10:10)
	l.Ministr Avtomobil'nogo transporta Azerbayo (AzerbaijanTransportation,	lzhanskoy Automoti	SSR. ve)	

ZEYNALOV, Z.I.; MAMEDOV, M.K.; USHAKOV, A.P.[deceased]; AKHMEDOVA, A.M., red.; SHTEYNGEL', A.S., red.; NASIROV, N., tekhn.red.

[Geology, oil potential, and the economic development of Artem Island] Geologiia, neftenosnost' i ekonomicheskoe razvitie Artemovskogo raiona. Baku, Azerneshr, 1963. 166 p. (MIRA 17:3)

BABALYAN, G.A.; ZEYMALOV. Z.I.; KORKHOVA, Ye.F.; TAIROV, A.I.; AGALAROV, M.S.

An example of flooding of an oil field having bottom water. Trudy
AzNII DN no.3:232-240 '56.

(Apsheron Peninsula--Oil well drilling, Submarine)

SALAYEV, S.O.; ZEYNALOVA, E.I.

Submergence of Oligocene-Miccene anticlinal zones of southwestern Kobystan toyard the Dzheyran-Kechmaz Depression. Dokl.AN Azero.

SSR 17 no.1:41-45 \*61.

1. Institut geologii AN AzerbSSR. Predstavleno akademikom AN AzerbSSR Sh.F. Mekhtiyevym.

(Kobystan-Geology, Structural)

L 45693-66 EVT(d) IJP(c)
ACC NR: AR6017336 SOURCE CODE: UR/0044/66/000/001/B060/B060

AUTHOR: Zeynalova, A. A.

REF SOURCE: Sb. Nekotoryye vopr. funkts. analiza i yego primeneniy. Baku, AN AzerbSSR, 1965, 52-63

TITLE: On the completeness of a system of eigen- and adjoint functions of a non-self-conjugate differential operator generated by a differential expression with a retarding argument

SOURCE: Ref. zh. Matematika, Abs. 18266

TOPIC TAGS: differential operator, mathematic method, function thony

TRANSLATION: For a non-selfconjugate differential operator L:

 $l(y) = -y''(x) + q(x) y(x) + r(x) y(x - \alpha(x)), \quad y(0) = 0$   $(0 < x < \infty, x - \alpha(x) > 0),$ 

with a real function q(x) and complex-valued r(x), the following sufficient conditions are introduced for the completeness in  $L^2(0, \infty)$  of the system of eigen- and adjoint functions:

 $\lim_{x \to +\infty} \frac{q(x)}{x^{\lambda}} > c > 0$ 

Card 1/2

UDC: 517.949.2

L 45593-66

ACC NR: AR6017336

for a certain k > 0; the operator Ry=r(x)y(x-a(x)) is given in the form of the square of a certain operator

 $\sqrt{R} y = r_1(x) y(x-\alpha_1(x)), \quad \alpha_1(x) < 0 < 1, \quad x-\alpha_1(x) + + \infty (x + \infty);$ 

the functions q(x) and  $r_1(x)$  are bounded in each finite interval;

$$\lim_{x\to\infty} \frac{|r_1(\psi(x))|^2 \psi'(x)}{q(x)} = 0, \quad \lim_{x\to\infty} \frac{|r_1(x)|^2 (1-\alpha_1'(x))}{q(x)} = 0,$$

where  $\psi$  (x) is a function inverse to  $x-\alpha_1(x)$ . In the case  $q(x)=x^k$ , k>2, the spectrum of the operator generated by the expression l(y) and by the boundary condition  $y'(0)-\theta y(0)=0$  is discrete and its resolvent is a wholly continuous operator, and the system of eigen- and adjoint functions is complete in  $L^2(0, \infty)$  if r(x) is measurable and essentially bounded on  $(0, \infty)$ ,  $\alpha(x) \geq 0$ ,  $\alpha'(x) \leq 0 < 1$ ,  $x-\alpha(x) + + \infty$  for  $x+\infty$ , the derivative of the function inverse to  $x-\alpha(x)$  is measurable and essentially bounded. Yu. Valitskiy.

SUB CODE: 12/

SUBH DATE: NOTE

Card 2/2-/11

KULIYEV, A.M.; ORUDZHEVA, I.M.; ZEYNALOYA, G.A.; AKHHED-ZADE, D.A.;
ATALYAN, A.K.; LEYSHINA, A.M.; SADYKHOV, K.I.

Studies in the synthesis and use of additives for lubricating oils. Shor.trud.AzNII NP no.2;207-224 Ag \*58.

(AIRA 12:6)

(Lubrication and lubricants—Additives)

26198 s/081/61/000/012/026/028 B103/B202

5.6600

Kuliyev, A. M., Orudzheva, I. M., Zeynalova, G. A., Atal'yan, A. A., Akhmed-Zade, D. A., Levshina, A. M., Sadykhov, K. I.,

Abdinova, A. B.

Synthesis of organic compounds containing various functional TITLE:

groups and their applications to improve the quality of

lubricating oils

Referativnyy zhurnal. Khimiya, no. 12, 1961, 530, abstract 12M225. (Tr. 1-y Konferentsii zakavkazsk. un-tov. Baku, PERIODICAL:

Azerb. un-t, 1959, 111-123)

The authors present the results of research work which has been conducted for many years in the Azerbaydzhanskaya SSR concerning the synthesis and the choice of additives to lubricating oils. The following compounds were synthesized and their properties were studied: mono-, di-, and trialkyl derivatives of benzene, naphthalene, tetraline, anthracene, and phenanthrene; alkyl benzene-, alkyl naphthalene-, alkyl phenol-, and alkyl tetraline sulfonates of Ca, Ba, Sr, Pb, and Cu; mono- and dialkyl phenols; mono- and

Card 1/2

26198 \$/081/61/000/012/026/028 B103/B202

Synthesis of organic compounds ...

disulfides of alkyl phenols and their Ba and Ca salts; tri—(alkylphenol)-phosphites and their mono- and disulfide derivatives; mono- and dialkyl ureas; condensation products of urea with aldehydes and alkyl phenols. The depressor A3HMM (Aznii) (dialkyl naphthalene, in which alkyls originate from chlorinated paraffin) from the year 1947, detergents for motor cils Aznii-4 from the year 1949 and Aznii-5 (both sulfanates) were industrially used. The multifunctional additives to the motor cils Aznii-7 and Aznii-8 (both salts of the alkyl phenol sulfides) and an additive stabilizing the mineral cil obtained by condensation of urea with aldehyde and alkyl phenol, were recommended for introduction into industry. [Abstracter's note: Complete translation.]

Card 2/2

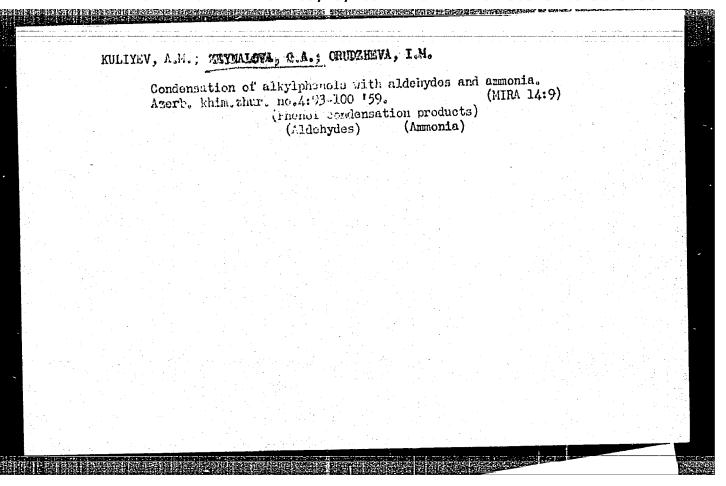
KULIYEV, A.M.; ZEYNAIOVA, G.A.; ARDIMOVA, A.B.

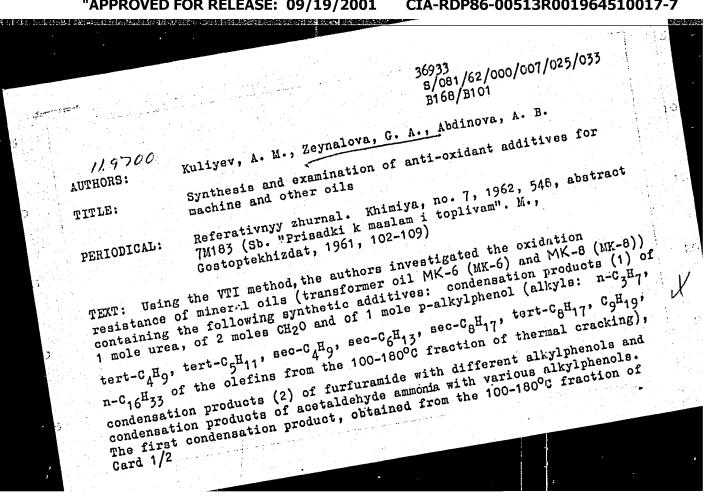
Synthesis of the products of condensation of carbamide and alkyl phenols with formaldehyde and study of their stabilizing action on lubricating oils. Azerb.khim.zhur. no.2129-38 (MIRA 13:6)

159. (Urea) (Phenol condensation products) (Formaldehyde) (Inbrication and lubricants)

KULIYEV, A.M.; ABDINOVA, A.B.; ZEYNALOVA, G.A.; ORUDZHEVA, I.M.

Effect of urea derivatives on the oxidation resistance of lubricating oils. Azerb, khim.zhur. no.4:15-20 '59. (MIRA 14:9) (Lubrication and lubricants) (Urea)





Synthesis and examination of ...

S/081/62/000/007/025/033 B168/B101

thermal cracking (additive O3HUH-11 (aznii-11)) proved an effective antioxidant (at a concentration of O.1%); at a test temperature of 120°C this
product was equal in effectiveness to ionol and p-hydroxydiphenylamine and
at 150 and 170°C was superior to ionol. The second condensation product,
obtained from industrial acrylphenol (additive a3HHH-11¢ (aznii-11f)), was
also found to be an effective anti-oxidant; it was more effective than
ionol (at test temperatures of 120 and 150°C). [Abstracter's note:

Card 2/2

KULIYEV, A.M.; SULEYMANOVA, F.G.; SADYKHOV, K.I.; ZEYNALOVA, G.A.; EL'OVICH, I.I.; KHIGER, V.F.; BASHAYEV, V. Ye.; MUSHATLOV, T. Ye.

Improving the quality of motor oils from Baku petroleum. Khim. i tekh. topl. i masel 9 no.6:35-39 Je'64 (MIRA 17:7)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

KULIYEV, A.M.; RASULOVA, M.A.; ZEYNALOVA, G.A.

Condensation of alkylphenols with formaldehyde and o-toluidine. Azerb. khim. zhur. no. 2:3-7 65. (MIRA 18:12)

1. Institut neftekhimicheskikh protsessov AN AzerSSR. Submitted Jan. 4, 1965.

CC NRI AP6007671	A) SOURCE CODE:	UR/0413/66/000/003/0043/004
NVENTOR: Kuliyev, A. M.; 2 . BA. K.; Agakishiyeva, A	Zamalana a da kaya asa	
RG: none		3
ITLE: Preparative method f o. 178437 [announced by In Institut neftekhimicheskikh	for a multipurpose additive to astitute of Petrochemical Process protessor AN Azerbaydzhanska	motor oils. Class 23. esses, AN Azerbaydzhan SSR by SSR)
and the second s	shlennyye obraztsy, tovarnyye	
PIC TAGS: lubricant addit		
	cate has been issued for a pre ve to motor oils. The method lkylphenol-formaldehyde-ammoni	involves treatment with a condensation product.
B CODE: 21/ SURM DATE: 2	en e	[BO]
	1일 후 기계를 받아 있는데 기계를 하는데 되어 있다. 즐겁게 하는데 기계를 하는데	
	분분들 불통 물리를 맞고 있다면서 들어 있는데	

AUTHOR: Kuliyev, A. M.; Abdullayev, A. G.; Zeynalova, G. A.  TITLE: Synthesis of pour point depressants by condensation of alkylphenols and alkyl-β-naphthols with formaldehyde  SOURCE: Ref. zh. Khimiya, Part II, Abs. 15P249  REF SOURCE: Uch. zap. Azerb. un-t. Ser. khim. n., no. 4, 1965, 47-52  TOPIC TAGS: pour point depressant, automotive oil  ABSTRACT: Pour point depressants have been synthesized by condensation of mono- or dicetyl derivatives of phenol and β-naphthol with formaldehyde. The products contained different numbers of aromatic rings linked by methylene groups. The effectiveness of the depressants was tested in automotive oils. It was shown that the condensation products depress the pour point of the oils more than the respective initial alkyl derivatives.  [BO]  SUB CODE: 11,07/SUBM DATE: none	l
SOURCE: Ref. zh. Khimiya, Part II, Abs. 15P249  REF SOURCE: Uch. zap. Azerb. un-t. Ser. khim. n., no. 4, 1965, 47-52  TOPIC TAGS: pour point depressant, automotive oil  ABSTRACT: Pour point depressants have been synthesized by condensation of mono- or dicetyl derivatives of phenol and β-naphthol with formaldehyde. The products contained different numbers of aromatic rings linked by methylene groups. The effectiveness of the depressants was tested in automotive oils. It was shown that the condensation products depress the pour point of the oils more than the respective initial alkyl derivatives.  [BO]	
SOURCE: Ref. zh. Khimiya, Part II, Abs. 15P249  REF SOURCE: Uch. zap. Azerb. un-t. Ser. khim. n., no. 4, 1965, 47-52  TOPIC TAGS: pour point depressant, automotive oil  ABSTRACT: Pour point depressants have been synthesized by condensation of mono- or dicetyl derivatives of phenol and β-naphthol with formaldehyde. The products contained different numbers of aromatic rings linked by methylene groups. The effectiveness of the depressants was tested in automotive oils. It was shown that the condensation products depress the pour point of the oils more than the respective initial alkyl derivatives.  [BO]	
SOURCE: Ref. zh. Khimiya, Part II, Abs. 15P249  REF SOURCE: Uch. zap. Azerb. un-t. Ser. khim. n., no. 4, 1965, 47-52  TOPIC TAGS: pour point depressant, automotive oil  ABSTRACT: Pour point depressants have been synthesized by condensation of mono- or dicetyl derivatives of phenol and 8-naphthol with formaldehyde. The products contained different numbers of aromatic rings linked by methylene groups. The effectiveness of the depressants was tested in automotive oils. It was shown that the condensation products depress the pour point of the oils more than the respective initial alkyl derivatives.  [BO]	
TOPIC TAGS: pour point depressant, automotive oil  ABSTRACT: Pour point depressants have been synthesized by condensation of mono- or dicetyl derivatives of phenol and β-naphthol with formaldehyde. The products contained different numbers of aromatic rings linked by methylene groups. The effectiveness of the depressants was tested in automotive oils. It was shown that the condensation products depress the pour point of the oils more than the respective initial alkyl derivatives.  [BO]	
TOPIC TAGS: pour point depressant, automotive oil  ABSTRACT: Pour point depressants have been synthesized by condensation of mono- or dicetyl derivatives of phenol and β-naphthol with formaldehyde. The products contained different numbers of aromatic rings linked by methylene groups. The effectiveness of the depressants was tested in automotive oils. It was shown that the condensation products depress the pour point of the oils more than the respective initial alkyl derivatives.  [BO]	
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tested in automotive oils. It was shown that the condensation products depress the pour point of the oils more than the respective initial alkyl derivatives.  [BO]	
alkyl derivatives. [BO]	
[BO]	
SUB CODE: 11,07/SUBM DATE: none	
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L 14574-66 ENT(m)/c D		<u> </u>	8 111
ACC NR: AP6005336	SOURCE CODE: UR/O	413/66/000/001/0074	/0074
INVENTOR: Papok, K. K.; Kreyn, Vinner, G. G.; Dobkin, I. Ye.; Botkin, P. P.; Kuliyev, A. M.;	Zeynalova, G. A.	ya, B. S.; Garzanov skaya, T. A.; Somov	, G. Ye.; , V. A.;
ORG: none	VIM		
TITLE: Preparation of motor of	l. Class 23, No. 177579		
SOURCE: Izobreteniya, promyshlo TOPIC TAGS: motor oil, antiwear			, 74
ABSTRACT: An Author Certificate oil, involving addition of a demethod provides for the use of a dialkyl dithiophosphate based or	tergent and an <u>antiwear addi</u> an alkyl-formaldehyde conde a C <sub>12</sub> -C <sub>16</sub> alcohols as the ad	tive to the oil ba	M. J
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			i d

135		UR/0286/65/000/013/0055/0055
AUTHOR: Kuliyev, A. M. O.; Mushailov, VA. Ye.	Suleymanova, F. G.; El'	665.4/.5 35 36 46.5 ovich, I. I.; Zeynulova, G. A. L.;
TITLE: Preparative method for	or motor oils. Class 2	3. No. 172446
SOURCE: Byulleten' izobreten	niy i tovarnykh znakov,	no. 13, 1965, 55
TOPIC TAGS: lubricating oil,	lubricant additive, an	tivear additive
ABSTRACT: An Author Certific oils, involving addition of t formaldehyde condensation pro foamant additives. To improve additive used is thiochlorost	duct [unspecified], and	
ASSOCIATION . THE		im. Yu. G. Mameduliyeva Processes, AM Azerbayazhan SSR)
Gubritted: 03Mar64 10 Ref Sov: 900	ENCL: 00 OTHER: 000	44/55 SUB CODE: FP

ACCESSION NR: AT4001187 S/3030/63/000/000/0116/0137

AUTHORS: Kuliyev, A. M.; Orudzheva, I. M.; Zeynalova, G. A.;
Sady\*khov, K. I.

TITLE: Synthesis and use of new additives for motor and power plant oils

SOURCE: Uluchsheniye kachestva i sovershenstvovaniye proizvodstva smazochny\*kh masel. Trudy\* Vses. soveshchaniya. Moscow, 1963, 116-137

TOPIC TAGS: motor oil, lubricant, antioxidant, additive, SB-3, BFK-1, phosphorus containing additive, sulfonic acid. BFK-1, phosphorus containing additive, sulfonic additive, sulfonic acid. disphenols, alkylphenols, formaldehyde, sulfonic acid, bisphenols, alkylphenols, formaldehyde, polyfunctional additive, aznii-ll, MK-6, MK-11, furfuramide, diphenylamine.4-hydroxy-, acetaldehyde, ammonia, phenol.p-tert-octyl-, l-naphthylamine.Nphenyl-, carbamide

ACCESSION NR: AT4001187 ABSTRACT: The results of synthesis and testing of new and perspective oil additives developed in the INKhP are summarized. A series of alkylaromatic suflonates (O<sub>1</sub> - C<sub>16</sub>; benzene, naphthamlene, tetralin, phenol and chlorophenyl) were synthesized and characterized; the relationship between their detersive properties and their solubility, molecular weight, metal content, side chain length, aromatic nucleus and presence of functional groups was studied. 'The stability, detergent and corrosive properties of some of these compounds -- SB-3, PMS-19, NG-102 were laboratory tested; SB-3 gave better results in wear and deposit formation after long term testing than AZNII-8 or TsIATIM-339. A study of Ba, Ca, and Zn salts of alkylphenol-formaldehyde condensation products indicated the Ba salt, BFK-1, to have the best detergent, anticorrosion and antideposit properties, its effectiveness approaching that of monofunctional phosphorus-containing additives. For antioxidants, a new series of compounds was synthesized based on alkylated ureas. AZNII-11, a condenuate of alkylphenol with urea and formaldehyde is especially interesting. Condensates of alkylphenols (p-tert.-butyl, -amyl, -octyl) with aldehydes (furfuralde-

ACCESSION NR: AT4001187

hyde, acetaldehyde) and ammonia yielded an especially promising AZNIIlif (substituted alkylphenol-furfuramide). About 1% of this gaves
smaller amounts of deposite, lower acid number of the oil and better
stabilization than ionol. Urotropine-formanide condensates were investigated. Optimum synthesis conditions for additive No. 17,
p-tert. octylphenol-urotropine-formaldehyde condensate were studied.
O.1% of No. 17 in MK-8 oil gave as much antioxidant protection as
ionol, and was more effective than p-hydroxydiphenylamine, as tested
by the VTI method at 1400 and 2000C. Polyfunctional additives were
prepared from mixtures of alkyl phenolates, phenylsulfonates and
phenolate-P<sub>2</sub>S reaction products. Mixtures of SB-3 and VNII NP354, VNII NP-353, Zn salt of S- and P-containing compounds, or BFK-1,
tested on transport engines YaAz-204 and KDM-46, showed the SB-3
+ BFK-1 combination most effective. SB-3 + AZNII-7 (1:1) offered
better protection in a S-containing AS-10 oil than either component
alone. Orig. art. has: 16 Tables and 5 Equations.

ASSOCIATION: None

Card 3/4 3

T. 12401-63 RM/BM/MM/MN

EMP(1)/EFF(c)/EMT(m)/EDS

AFFTC/ASD/APGC

ACCESSION NR: AP3001668 5/0065/63/000/006/0024/0028

AUTHOR: Kuliyev, A. M.; Zeynalova, G. A.; Abdinova, A. B.; Kafarova, U. Ya.; 75 Suleymanoya, F. G.; Mamedov, M. A.

TITLE: Preparation of multifunctional additive based on condensation products of alkylphenol with formaldehyde (

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1963, 24-28

TOPIC TAGS: Fuel additives, physicochemical properties, formaldehyde alkylphenol

ABSTRACT: The investigation of a multifunctional additive by the comlensation reaction of formaldehyde with alkylphenol and its comparison to other existing additives has been completed. In the process of investigation it was established that the use of highly effective multifunctional additives in fuels lis more enonominal and since all the functional groups are concentrated into one molecule. the elimination of these additives is rapid as a result of its chemical interaction with the metals at contact or adsorption to the metal surface. The composition of the synthesized barium salt of the condensation alkylphenol and formaldehyde products (BPK) With other combination additives showed that the BFK additive is more superior to other additives. It prevents corrosion of the

Card 1/2

L 12401-63

ACCESSION NR: AP3001668

diesel fuels containing as much as 1.2% of sulfur in their composition and to a large extent improves its wetting ability. An industrial production of BFK based on the original data has been proposed. Orig. art. has: 5 tables.

ASSOCIATION: INKhP AN AZSSR.

SUBMITTED: 00

DATE ACQ: 08Ju163

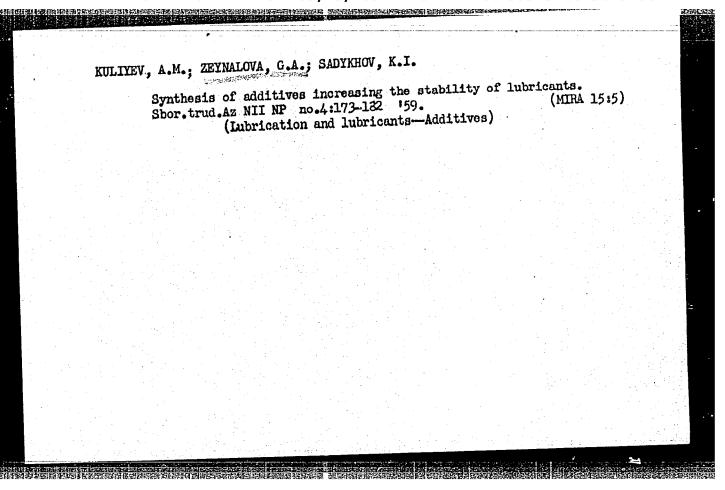
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Card 2/2



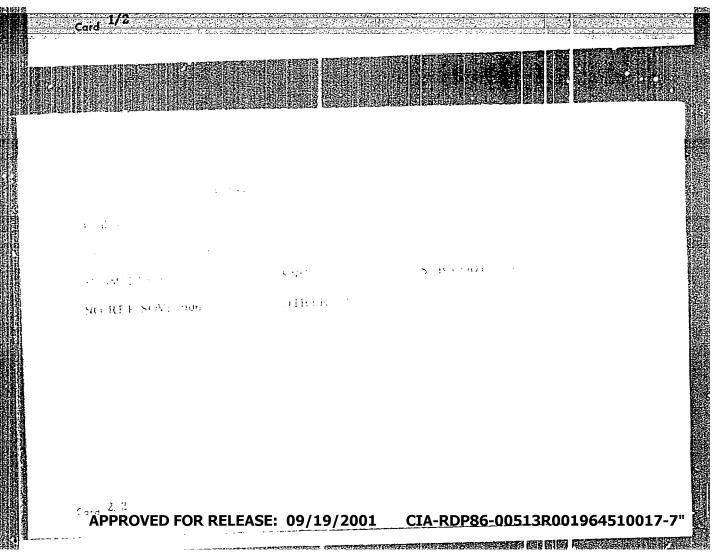
NEGREYEV, V.F.; KULIYEV, A.M.; MAMEDOV, I.A.; SADYKHOV, K.I.; ZEYNALOV, S.D.; ABDULLAYEVA, G.M.; ZEYNALOVA, K.A.

Investigating some surface-active by-products of the industry of oil additives as corrosion inhibitors. Azerb.khim.zhur. no.6: 57-64 '63. (MIRA 17:3)

The surprise sources of the topolymerization of div nylbenzenes	EQ: Editors Controller					
CURCE: Azerbaydzhanskiy khimiches , zhurnai, no. 1, 1964, 37-42  POPIC TAGS: copolymerization, emulsifier, polyalkythenzenesulfonate, divinyl- report and a second					Management of the Control of the Con	5.5
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ACCESSION NR: AP4049422 the initiator and emulsifier concentration, and the duration or the experiment. The opt mum values found were a temperature of 900, a concentration of cumene hydroperoxide of 21, a concentration of emulsifier of 0.51 and a martino time APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964510017

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PETROVA, Z.G.; BABAYEVA, A.A.; SADYKHOVA, S.A.; ZEYNALOVA, K.G.

Preparation of sulfopolymers based on divinylbenzene and styrene, and study of their physicochemical characteristics. Azerb. khim. zhur. no.3:83-89 164. (MIRA 18:5)

PETROVA, Z.G.; BABAYEVA, A.A.; SADYKHOVA, S.A.; ZEYNALOVA, K.G.; MIRZOYEVA, O.I.; ZAMANOVA, E.Yu.

Study of the regularities in the process of copolymerization of divinylbenzenes with styrene using azolyat as an emulsifying agent. Azerb. khim. zhur. no.1:37-42 '64. (MIRA 17:5)

PETROVA, Z.G.; BABAYEVA, A.A.; SADYKHOVA, S.A.; ZEYNALOVA, K.G.

Some data on sulfocation exchangers obtained on the basis of polyalkyl benzenes produced by synthetic rubber plants. Azorb. khim. zhur. no.2:45-50 '63. (MIRA 16:8)

BAGBANLY, I.L.; ZEYNALOVA, Kh.L.K.

Titanium determination in magnetite sandstones. Dokl.AN Azerb.SSR
17 no.9:793-796 '61. (MIRA 15:3)

1. Institut khimii AN AzSSR. Predstavleno akademikom AzSSR M. F.
Nagiyevym. (Rocks--Analysis) (Titanium)

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8/137/61/000/012/033/149 A006/A101

AUTHORS:

Eagbanly, I.L., Zeynalova, Kh.L.

TITLE:

Investigating means of obtaining titanium concentrate from the

Dashkesan magnetite sandstone

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 16, abstract 120116 ("Azerb. khim, zh.", 1961, no. 2, 75-79, Azerb, summary)

TEXT; The authors studied conditions of raising Ti concentration in a solution by lixiviating new portions of the melt in the alkali which was obtained from lixiviation of the previous portions. To perform the tests a sample was prepared containing in %: SiO<sub>2</sub>, 20.43; Fe<sub>2</sub>O<sub>3</sub> 8.40; Al<sub>2</sub>O<sub>3</sub> 4.40; TiO<sub>2</sub> 6.57; CaO 5.84; MgO 1.36; SO<sub>3</sub> 1.14. TiO<sub>2</sub> transition into the solution during the first processing was 73.5%. During the second and the subsequent processings the lixiviating capacity of the processed mass was strongly reduced. At 6-fold lixiviation the TiO<sub>2</sub> transition into the solution was 30.14%. Experiments were also made for the purpose of obtaining Ti-concentrate by separating Fe from Ti-containing ores and reduction of Ti-ores with petroleum coke. The experiments were made with briquets in tablet form, prepared at 150 atm. pressure. At a

Card 1/2

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Investigating means ...

8/137/61/000/012/033/149 A006/A101

1:0.2 ratio of the rock to the coal a reduction by 11.34% was obtained. The temperature changed within 1,000 - 1,100°C, the reduction time was 4 hours. At 1,100°C the degree of reduction attained 40%. To obtain Ti-concentrate and separate the Fe metal from the reduction product, the latter was processed with FeCl<sub>3</sub>. After processing with FeCl<sub>3</sub> the solution contained about 1.5% TiO<sub>2</sub>. The maximum TiO<sub>2</sub> content in the concentrate attains up to 12.62%.

Q. Svodtseva

[Abstracter's note: Complete translation]

Card 2/2

BAGBANLY, I.L.; ZEYNALOVA, Kh.L.; MIRZOYEVA, T.R.

Study of the conditions for obtaining titanium dioxide from magnetite sandstone of the Dashkesan deposit by the aicd treatment. Trudy Inst.khim. AN Azerb.SSR 18:55-66 \*60. (MIRA 14:9)

(Titanium oxide) (Dashkesan--Sandstone)

В.	AGBANLY, I.L.;	ZEYNALOVA, Kh.L.K.			
	Methods Dashkes	an magnetite sames	n of titanium concent	rate from a . no.2:75-79 '61. (MIRA 14:8)	
		(Titar	ium) (Sandstone)		

S/081/62/000/006/054/117 B149/B108

AUTHORS:

Bagbanly, I. L., Zeynalova, Kh. L. K.

TITLE:

Investigation of the ways of obtaining titanium concentrates

from Dashkesan magnetite sandstone

PERIODICAL: Referativnyy zhurnal. Khimiya, no, 6, 1962, 393, abstract

6K81 (Azerb. khim. zh., no. 2, 1961, 75 - 79)

TEXT: The solubility of iron oxides in H<sub>2</sub>SO<sub>4</sub> is not diminished by the roasting of magnetite sandstone, therefore the concentration of Fe in the solution of Ti(SO<sub>4</sub>)<sub>2</sub> is several times higher than that of Ti, and pure TiO<sub>2</sub> is difficult to obtain. The degree of reduction of the iron oxides to metallic Fe in the reduction of magnetite sandstone with methane in the pseudoliquefied layer reaches 60 %, the content in titanium oxide in the concentrate 15.0 %. 7 references. [Abstracter's note: Complete translation.]

Card 1/1

Purification of Makhichevan rock salt. Trudy Inst. khim. AN Azerb.
SSR 16:108-117 '57.
(Nakhichevan A.S.S.R.--Salt mines and mining)

MARDANO	OV, M.A.; VELIY	EV, K.G.; ZEYNA	LOVA, L.M.		
	Study of fuel neft. khoz.	fractions of o 40 no.10:34-37 (Apsheron Pen	0 '61.	 Azerb. (MIRA 15:3)	

WULIYEV, I.A.; ZEYNALOVA, M.K.  Use of the theory of four-terminal networks in studying the parameters of a logging cable. Azerb. neft. khoz. 40 no.10:40-41 (MIRA 15:3)  (Oil well logging, Electric)											
meters of a logging cable. Azerb. neft. khoz. 40 nc.10:40-41 0 '61. (MIRA 15:3)		KULIYEV,	, I.A.;	ZEYNALOVA,	M.K.						
(Ull Well logging, Electric)			meters o	the theory of a loggin	ng cable.	Azerb.	neft. kho	oz. 40	no.10:4	0-41	
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ACC NR. AP7006289

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AUTHOR: Lantsevitskaya, S. L.; Zeynalova, S. I.; Protasov, G. N.; Shekhbazov, D. A.

ORG: AzNIIburneft'

TITLE: Experience in the use of slow-setting belite sealing cement slurry

SOURCE: Bureniye, no. 6, 1966, 19-20

TOPIC TAGS: cement, petroleum engineering

ABSTRACT: Data are given on well sealing operations using belite cement, a mixture of clinker (85%) and finely ground quartz sand (15%). An experimental batch of this manand in setting a 219 mm liner in a well of the "Aznefterazvedka" trust. Logging of this well showed a temperature of 117°C at a depth of 3764 m. Tests of the belite cement showed that it begins to set after 1 hour and 45 minutes at this temperature. The tensile strength of the material was 24.2 kg/cm² after two days. The procedure used for sealing off the well is described in detail. The results in this case show that slow-setting belite cement may be used for sealing off wells where the temperature of the working face reaches 75-140°C. The material retains its useful properties longer in "hot" wells than conventional sealing cement. Orig. art. has: 4 tables.

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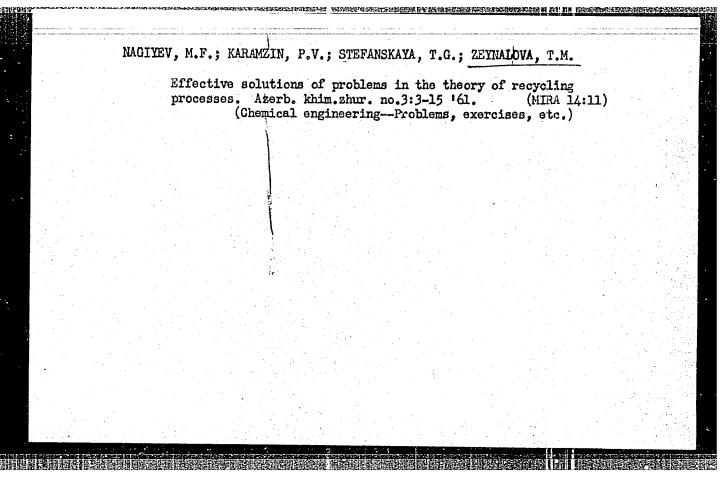
Card 1/1

UDC; 622.245.42

IZMAYLOV, Ya.A.; ABBASOV, F.A.; GORSKIY, R.G.; ZEYNALOVA, T., red.; BAGIROVA, S., tekhn. red.

[Experimental apartment house made of vibrated concrete

[Experimental apartment house made of vibrated concrete panels] Eksperimental'nyi zhiloi dom iz vibrokamennykh panelei. Baku, Azerbaidzhanskoe gos.izd-vo, 1963. 115 p. (MIRA 17:2)



MAKHNUDOV, M.N.; ZEYNALOVA, T.Z., red.; AKHNEDOV, S., tekhn. red.

[Effect of some factors on the process of cementing wells]
Vliianie nekotorykh faktorov na proteess tsementirovki
skvazhin. Baku, Azerneshr, 1962. 86 p. (MTRA 15:11)

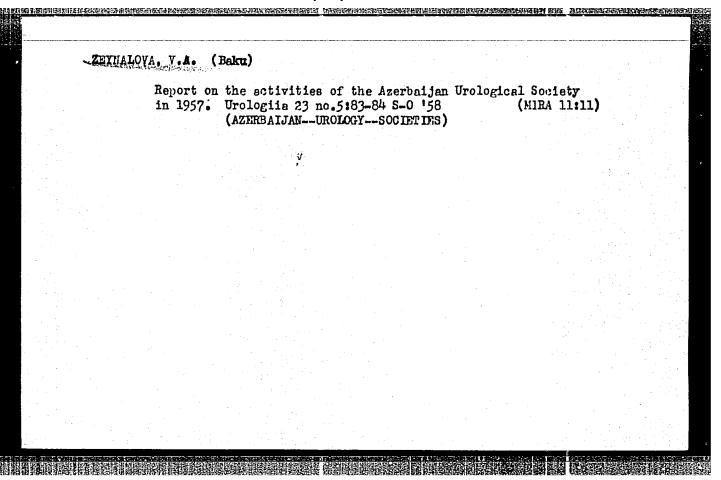
(Oil well cementing)

ZEYNAIOVA, V.A. (Baku)

Report on the activity of the Azerbaijan Urological Society in 1958.
Urologiia 24 no.5:73-75 S-0 '59. (MIRA 12:12)

(AZERBAIJAN--UROLOGICAL SOCIETIES)

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MAMELOV, Shamhal; OSIPOV, O.B.; ALIYEVA, Kh.M.; ZEYNALOVA, V.M.

Efiran-66, a new herbicide. Dokl.AN Azerb.SSR 17 no.4:331-334
'61. (HIRA 14:6)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

Predstavleno akademikom AN Azerbaydzhanskoy SSR V.R. Volobuyevym.

(Herbicides) (Isonropyl ether)

ZEYNALOVA, U. M.

USSR/Plant Diseases - Disease of Cultivated Plants .

0-3

Abs Jour

: Ref Zhur - Biol., No 15, 1958, 68527

Author

: Zeynalova, V.M.

Inst

: As Azerbaydzhan SSR

Title

: Rubrigo in Grain, Fodder, and Wild Brasses in Azerbayd-

zhan.

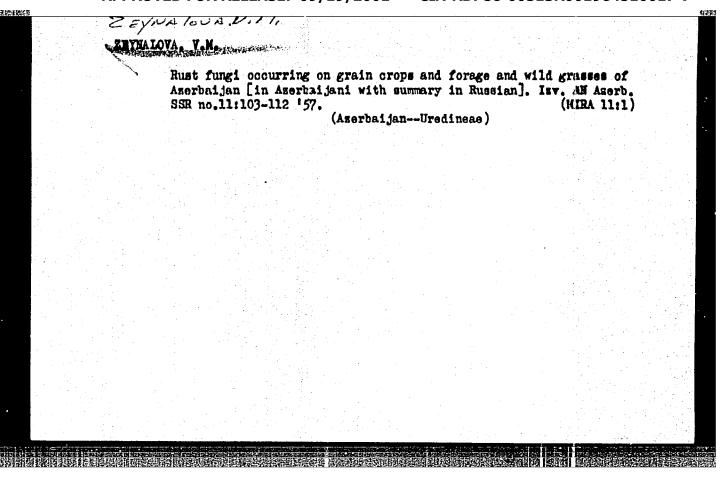
Orig Pub

: Izv. Acad Sci AzerbSSR, 1957, No 11, 103-112.

Abstract

: 52 varieties of rust fungi have been discovered in the grain, fodder, and wild grasses of Azerbaydzhan; among them 46 varieties belong to the genus Puccinia and 6 to the genus Uromuces. Two species were found on grasses hitherto unknown in the USSR (U. koeleria Uljan, and P. mediterranea TR.). The uredo spore and teleuto spore stages of P. arrhenatheri Kl. (Er.) were discovered for the first time in the USSR. It has been determined

Card 1/2



CHANDIRLI, A.A.; ZEYNALOVA, Z.A.

Cholesterol content in the blccd of workers coming in close contact with tobacco dust. Azerb. med. zhur. 41 no.5:83-87 My 164.

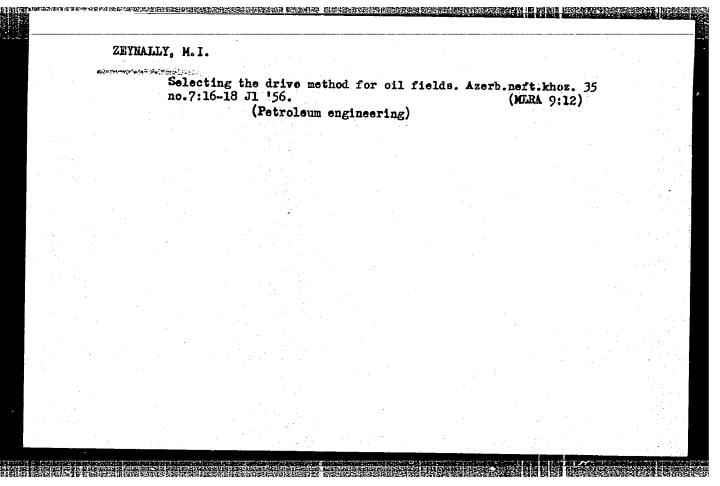
(MIRA 18:10)

1. Iz otdela kardiologii Azerbaydzhanskogo instituta eksporimental'noy i klinicheskoy meditainy ANN SSSR.

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	GORIN,	V.A.; S	ULTANOV	, K.L.	; ZEIM	auta, Z	.G.						
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ZEYNALOVA, Z.C.; GORIN, V.A.

Some characteristics of the sedimentation of coarse detrital material in the lower part of the Balakhany series, Izv. AN Azerb. SSR Ser. geol.-geog. nauk i nefti no.5:73-76 '62. (MIRA 16:6) (Apsheron Peninsula—Rocks, Sedimentary)



ZETNALLY, M.I.; SHAPIRO, B.A.; BARAYEVA, V.A.; KUZINA, V.V.; KUZNETSOVA, V.G.

Some results of flooding the Kirmaki 11 horizon in the southern depressed section of the Busovny oil fields. Azerb.neft.khoz. 35 no.10:13-16 0 \*56. (MERA 10:1)

(Buzovny--Oil filed flooding)

LEYNALLY 21.1.

Subject

: USSR/Mining

AID P - 3821

Card 1/1

Pub. 78 - 9/25

Author

: Zeynally, M. I.

Title

Some results of peripheral flooding of the sub- Kirmaku strata in one of the sections of the Mashtagi - Buzovny

Periodical

: Neft. khoz., v. 33, #11, 50-55, N 1955

Abstract

This section located on the Apsheron Peninsula near Baku is one of the first where secondary recovery of oil by

the flooding method has been tried. The flooding operations were started near Mashtagi in 1948 and extended

near Buzovny in 1952. The results proved satisfactory and therefore those secondary recovery operations may be

extended. Charts, tables.

Institution: None

Submitted

: No date

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9,4160 (also 1137)

S/058/61/000/002/006/018 A001/A001

Translation from: Referativnyy zhurnal, Fizika, 1961, No. 2, p. 307, # 2E477

AUTHORS:

Zeynalov, A.Kh., Kolomiyets, B.T.

TITLE:

Conductivity and Photoconductivity of Antimony Selenide Single

Crystals

PERIODICAL:

"Uch. zap. Azerb. un-t. Fiz.-matem. i khim. ser.", 1959, No. 4,

pp. 37 - 44 (Azerb. summary)

It is shown that photoconductivity of Sb2Sez single crystals has TEXT: some characteristic features. A study of dependence of photocurrent on illumination intensity revealed that recombination was not of bimolecular nature, at least up to illuminations of 1,500 lux. One level of recombination centers is at 0.54 ev from the valence zone. The curve of photosensitivity spectral distribution has, in addition to the main maximum located at the absorption edge (1  $\mu$ ), one more maximum within the absorption band  $(0.5\,\mu)$ . The presence of this second maximum points out specificity of surface photoconductivity in Sb2Se3 single crystals which should become the subject of a special study. An analysis of re-

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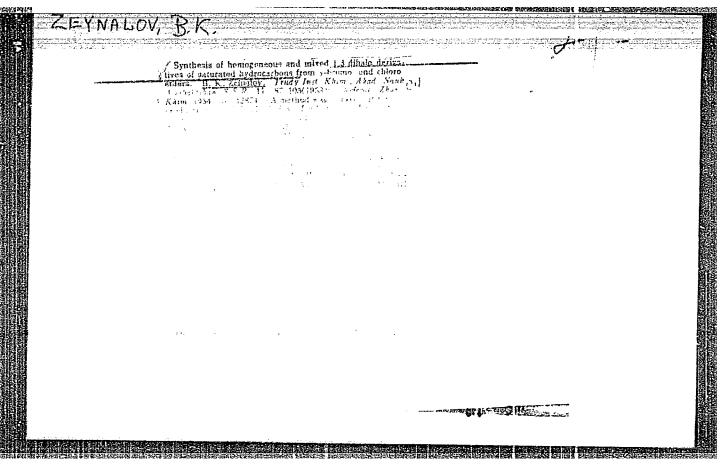
Conductivity and Photoconductivity of Antimony Selenide Single Crystals

laxation curves of photoconductivity showed the presence of adhesion levels. Due to this fact the time of photocurrent drop at small light fluxes becomes equal to 4x10<sup>-4</sup> sec which is considerably longer than the actual life time of non-equilibrium carriers, being 10<sup>-5</sup> sec. The high integrated sensitivity, specific features of spectral distribution and low inertness of Sb<sub>2</sub>Se<sub>3</sub> render it the material with favorable outlook for new photoresistors.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

Kinetics and chemical characteristics of homogeneous catalysis of processes of liquid-phase oxidation of wide and narrow fractions of paraffin distillate. Trudy Inst.khim.AN Gruz.SSR 12:251-257 '56.  (MIRA 10:5)  1.Institut khimii Akademii nauk Azerbaydzhanskoy SSR.  (Paraffins) (Catalysis) (Oxidation)	ZEYNALOV, 5. K	OV, B.K.; MAHEDOVA, S.G.
1.Institut khimii Akademii nauk Azerbaydzhanskoy SSR. (Paraffins) (Catalysis) (Oridation)		Kinetics and chemical characteristics of homogeneous catalysis of processes of liquid-phase oxidation of wide and narrow fractions of paraffin distillate. Trudy Inst.khim.AN Gruz.SSR 12:251-257. '56.
		1.Institut khimii Akademii nauk Azerbaydzhanskoy SSR. (Paraffins) (Catalysis) (Omidation)
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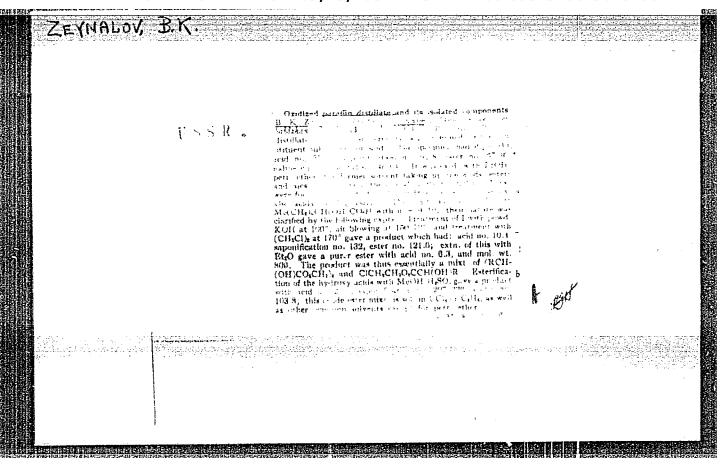
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	Name and Published Co.	Study of	the oxygen	ated paraffin	distillate	and of	the sep	arated con	2-
		ponents.	Prody Inst	t.khim. AN Az (Oxidation)	erb. SSR no	.13:91-1	03 154.	(MINA 8:6)	<b>,</b>
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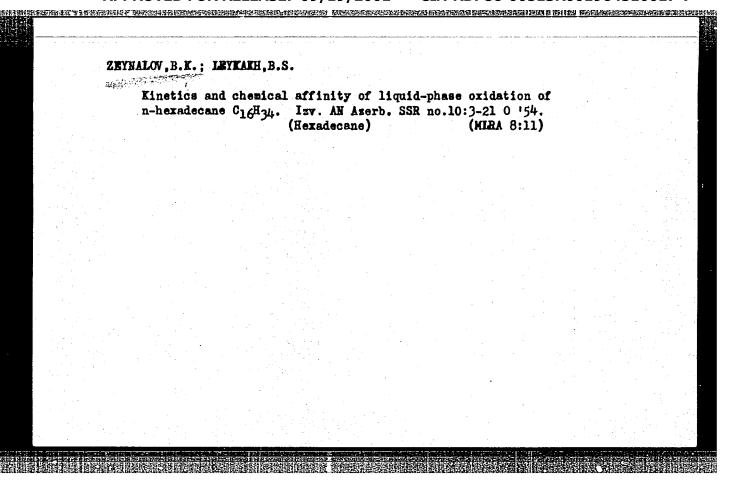
ZEYNALOV, B.K.; LEYKAKH, V.S.

Kinetics and the chemistry of liquid-phase oxidation of normal hexadecane C<sub>i6</sub> H<sub>Jy</sub>. Izv.AH Azerb.SSR no.9:17-31 S '56.(MLEA 9:11) (dexadecane)

ZEYHALOV, B.K.; LEYHAKH, V.S.

Kinetics and chemism of liquid phase processes of normal hexadecane C<sub>16</sub>H<sub>34</sub>. Izv. AN Azerb. SSR no.12:37-43 D '56. (MLRA 10:4) (Hexadecane)





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ZEYNALOV, B. K. and MAMEDOVA, S. G.

"Kinetics and Chemistry of Homogeneous Catalysis of the Frocesses of Liquid
Phase Oxidation of Wide- and Narrow-Range Fractions of Paraffin Distillate".

Izv. An Az SSR, No. 10, pp 3-27, 1953.

Studied the process of liquid phase exidation of narrow—and widerange fractions of paraffin distillate that has been purified from aromatic and
unsaturated hydrocarbons. Used calcium salts of water—insoluble carboxylic acids as
catalysts. The composition of the products and the degree of exidation were independent
of the amount of catalyst used, which indicates that the catalyst was active only
in the initial state of the reaction, according to the authors. The narrow—range
fraction could be exidized to only a certain limited extent (50% of the initial
products) after which dehydration of hydroxy acids and destructive exidation
apparently took place. (RZhKhim, No 4, 1955)

SO: Sum No 884, 9 Apr 1956

ZEYNALOV, S. S.

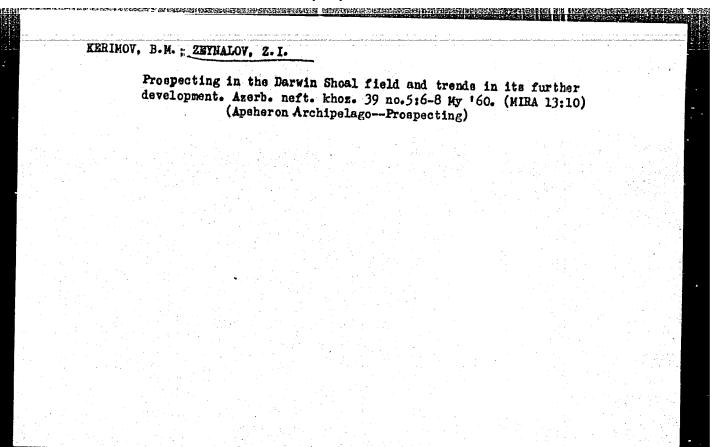
Zeynalov, S. S. - "On the theory of linear singular equations in a uvitary ring," Doklady (Akad. nauk. Azerbayd h. SSR), 1949, No. 4, p. 155-59, - (Resume in Azerbaijani)

SO: U-5241, 17 December 1953, Letopis' Zhurnal'nykh Statey, No. 26, 1949.

ZEYNALOV, YU. M. --"Effect of the Travel Rate of a Seed-Scattering Unit on the Vertical Dissemination of Cotten Seed.\*(Dissertations For Degrees In Science and Englisering Defended at USSR Higher Educational Institutions) (29) Min Higher Education, Azerbaijan Agricultural Inst, Kirovabad, 1955

SO: Knizhnaya Letopis' No 29, 16 July 1955

\* For the Degree of Candidate in Agricultural Sciences



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KULITHY, A.M.; ZEYNALOVA, G.A.; ORUNZHEVA, I.M.; LEVSHINA, A.M.

Improving output factors of diesel engines operating on sulfurous fuels. Aserb.neft.khoz.35 no.12:44-46 D '56. (MIRA 10:3)

(Diesel engine) (Diesel fuels)